BRUHATH BANGALORE MAHANAGARA PALIKE

PROJECT DIVISION-YALAHANKA

Name of Work: Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,

Job Code :-

Name of Agency :- M/s KRIDL

Bill No :1st and Final Bill

BAR CHART

Sl. No.	Description of Item	Unit	BOQ	Qty Executed	Percentage Completed
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever	Cum	39.61	39.61	100.00%
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth	Cum	296.67	296.67	100.00%
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @	Cum	9.98	9.98	100.00%
4	KSRB 5.1-3 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing	Cum	9.25	9.25	100.00%
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in	Cum	2.57	2.57	100.00%
6	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour,	Sq-m	5.17	5.17	100.00%
7	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete	Sq-m	18.72	18.72	100.00%
8	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per	Sq-m	56.94	56.94	100.00%
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string	Sq-m	17.09	17.09	100.00%

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10	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials,	Sq-m	40.72	40.72	100.00%
11	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS	Sq-m	5.48	5.48	100.00%
12	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding	Sq-m	25.82	25.82	100.00%
13	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 Cum. and fine aggregates @	Cum	8.59	8.59	100.00%
14	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @	Cum	72.39	72.39	100.00%
15	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175Cum. and fine aggregates	Sq-m	3.75	3.75	100.00%
16	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and	Tn	2.73	2.73	100.00%
17	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement	Sq-m	427.63	427.63	100.00%
18	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto	Cum	19.89	19.89	100.00%
19	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength	Sq-m	74.99	74.99	100.00%
20	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength	Sq-m	21.41	21.41	100.00%
21	KSRB15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering. : Providing and removing	Sq-m	103.83	103.83	100.00%

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22	KSRB15-3.4 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding,	Sq-m	119.96	119.96	100.00%
23	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including	Sq-m	47.81	47.81	100.00%
24	KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered	Sq-m	215.02	215.02	100.00%
25	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and	Sq-m	101.67	101.67	100.00%
26	KSRB 15-15.2 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and	Sq-m	78.81	78.81	100.00%
27	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour	Sq-m	96.82	96.82	100.00%
28	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour	Sq-m	26.47	26.47	100.00%
29	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing	Kgs	55.28	55.28	100.00%
30	SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top &	Sq-m	9.45	9.45	100.00%
31	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of	Sq-m	9.45	9.45	100.00%
32	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including	Each	1.00	1.00	100.00%
33	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing	m	40.00	40.00	100.00%

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34	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing	m	40.00	40.00	100.00%
35	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 90mm outside diameter with special flange, compression type fittings, wall clips, making good the	m	40.00	40.00	100.00%
36	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per	Unit	2.00	2.00	100.00%
37	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 88, I.No. 12.111 of PWD SR 2018-19)	Each	12.00	12.00	100.00%
38	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to	Each	12.00	12.00	100.00%
39	KSRB13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification	Each	12.00	12.00	100.00%
40	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads	Each	1.00	1.00	100.00%
41	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover	Nos	1.00	1.00	100.00%
42	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make)	Each	4.00	4.00	100.00%
43	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (	Each	2.00	2.00	100.00%
44	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush	Each	5.00	5.00	100.00%
45	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of	Each	3.00	3.00	100.00%

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46	Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of	Rmt	24.00	24.00	100.00%
47	Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre- painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer	Sq-m	7.56	7.56	100.00%
48	KSRB 8.2 : Providing and fixing in position black cuddapah slab / Shahabad slab / Thandur blue slab 4 cms thick for roofing laid to line and level over wooden rafters or R.C.C. battens pointing exposed joints with	Sq-m	2.12	2.12	100.00%
49	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed	Cum	349.12	348.97	99.96%
50	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465	Cum	57.90	57.74	99.72%
51	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum	Cum	81.51	81.46	99.93%
52	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and	Tonne	4.89	4.89	99.93%
53	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete	Sq-m	156.60	156.60	100.00%
54	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2018-19	Sq-m	168.98	168.93	99.97%
55	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.23, I.No.5.17 of PW,P&IWTD SR 2018-19))	Sq-m	169.22	169.23	100.01%
56	Providing and laying in plain reinforced cement concrete mix 1:2:4 with OPC @ 240 kgs, with 40 mm and down size graded granite matel coarse aggregates @ 0.84 cum and fine aggragtes @ 0.56cum, in pen foundations	Cum	19.29	19.38	100.49%
57	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting,	Cum	376.00	376.00	100.00%

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Sl. No.	Description of Item	Unit	BOQ	Qty Executed	Percentage Completed
58	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Sq-m	59.15	59.19	100.06%
59	Supplying heavy gauge PVC Conduit Pipe ….dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by Groove cutting in the wall and fixing by bracing U or J hooks and cement plastering				
a	20 mm Dia 2mm thick Item No , Page No 1-14,2.1-2	Mtr	100.00	100.00	100.00%
b	25 mm Dia 2mm thick Item No , Page No 1-14,2.1-2	Mtr	100.00	100.00	100.00%
60	Supplying heavy gauge PVC Conduit Pipe ….dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering				
a	20 mm Dia 2mm thick Item No 1.3.1 , Page No 2	Mtr	100.00	100.00	100.00%
b	25mm dia 2mm thick 1.3.2 , Page No 2	Mtr	100.00	100.00	100.00%
61	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to				
a	Short point upto 3Mtr from tapping point to out let via switch box Item No.-2.2.1)(Page No. - 5)	Point	6.00	6.00	100.00%
b	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box Item No.-2.2.2)(Page No. - 5)	Point	6.00	6.00	100.00%
c	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches Item No.-2.2.4)(Page No. - 5)	Point	6.00	6.00	100.00%
d	Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches box Item No.-2.2.5)(Page No. - 5)	Point	6.00	6.00	100.00%
62	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall				
a	1-3Way Item No 3.5.1	Each	5.00	5.00	100.00%
b	4-5Way Item No 3.5.2	Each	5.00	5.00	100.00%
63	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.				
a	1 to 3 Module Item No 3.6.1	Each	5.00	5.00	100.00%
b	4 Module Item No 3.6.2	Each	5.00	5.00	100.00%

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Sl. No.	Description of Item	Unit	BOQ	Qty Executed	Percentage Completed
64	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A				
a	6Amps one way. Item No 3.7.A.1	Each	5.00	5.00	100.00%
b	6Amps Two way.Item No 3.7.A.2	Each	5.00	5.00	100.00%
c	6Amps 3way socket.Item No 3.7.A.3	Each	5.00	5.00	100.00%
65	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 &				
a	1.5 sq. mm. (Elec SR - 2014-15 - Item No. - 2.5.2)(Page No. - 6)	M	100.00	100.00	100.00%
b	2.5 sq. mm. (Elec SR - 2014-15 - Item No. - 2.5.3)(Page No. - 6)	M	100.00	100.00	100.00%
c	4 sq. mm. (Elec SR - 2014-15 - Item No. - 2.5.4)(Page No. - 6)	M	100.00	100.00	100.00%
66	Supplying and fixing regular MCCB distribution Panel confirming to IS 8828, on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an	Each	3.00	3.00	100.00%
67	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with	Each	3.00	3.00	100.00%
68	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board. Item No 6.18				
a	16-25 Amps 2 pole. Item No 6.18.1	Each	5.00	5.00	100.00%
b	32-40 Amps 2 pole.Item No 6.18.2	Each	5.00	5.00	100.00%
69	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of				
a	5-32Amps SP Item No 6.16.1	Each	5.00	5.00	100.00%
b	40-63 Amps SP Item No 6.16.2	Each	5.00	5.00	100.00%
c	5-32 Amps DP Item No 6.16.3	Each	5.00	5.00	100.00%
70	Supplying of 2 pin /4pin 18W CFL Lamp Item No , Page No 4-4.36,18-30	Each	15.00	15.00	100.00%
71	3/2.2 Three Phase Motor For Open Well	Each	1.00	1.00	100.00%

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